

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT
  2  Ename Name,
  3  CONNECT_BY_ROOT Ename Boss,
  4  CONNECT_BY_ROOT Job BossJob
  5  FROM Emp
  6  START WITH Job = 'PRESIDENT'
  7  CONNECT BY PRIOR Empno = MGR;
```

NAME	BOSS	BOSSJOB
KING	KING	PRESIDENT
JONES	KING	PRESIDENT
SCOTT	KING	PRESIDENT
ADAMS	KING	PRESIDENT
FORD	KING	PRESIDENT
SMITH	KING	PRESIDENT
BLAKE	KING	PRESIDENT
ALLEN	KING	PRESIDENT
WARD	KING	PRESIDENT
MARTIN	KING	PRESIDENT
TURNER	KING	PRESIDENT
JAMES	KING	PRESIDENT
CLARK	KING	PRESIDENT
MILLER	KING	PRESIDENT

14 rows selected.

```
SQL> SELECT
  2  Ename Name,
  3  CONNECT_BY_ROOT Ename Boss,
  4  CONNECT_BY_ROOT Job BossJob
  5  FROM Emp
  6  START WITH Job = 'ANALYST'
  7  CONNECT BY PRIOR Empno = MGR;
```

NAME	BOSS	BOSSJOB
SCOTT	SCOTT	ANALYST
ADAMS	SCOTT	ANALYST
FORD	FORD	ANALYST
SMITH	FORD	ANALYST

```
SQL> SELECT
  2  Ename Name,
  3  HireDate,
  4  CONNECT_BY_ROOT Ename Boss,
```

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```
5 CONNECT_BY_ROOT HireDate BossHire,
6 ROUND(CONNECT_BY_ROOT HireDate - HireDate) Days
7 FROM Emp
8 WHERE SIGN(CONNECT_BY_ROOT HireDate - HireDate) = 1
9 START WITH Job = 'PRESIDENT'
10 CONNECT BY PRIOR EMPNO = MGR;
SELECT
*
```

ERROR at line 1:

ORA-00932: inconsistent datatypes: expected - got DATE

```
SQL> SELECT
2 Name,
3 HireDate,
4 Boss,
5 BossHire,
6 ROUND(BossHire - HireDate) Days
7 FROM
8 (
9 SELECT
10 Ename Name,
11 HireDate,
12 CONNECT_BY_ROOT Ename Boss,
13 CONNECT_BY_ROOT HireDate BossHire
14 FROM Emp
15 START WITH Job = 'PRESIDENT'
16 CONNECT BY PRIOR EMPNO = MGR
17 )
18 WHERE SIGN(BossHire - HireDate) = 1;
```

NAME	HIREDATE	BOSS	BOSSHIRE	DAYS
JONES	02-APR-81	KING	17-NOV-81	229
SMITH	17-DEC-80	KING	17-NOV-81	335
BLAKE	01-MAY-81	KING	17-NOV-81	200
ALLEN	20-FEB-81	KING	17-NOV-81	270
WARD	22-FEB-81	KING	17-NOV-81	268
MARTIN	28-SEP-81	KING	17-NOV-81	50
TURNER	08-SEP-81	KING	17-NOV-81	70
CLARK	09-JUN-81	KING	17-NOV-81	161

8 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
```

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```
2 Name,
3 HireDate,
4 Boss,
5 BossHire,
6 ROUND(BossHire - HireDate) Days
7 FROM
8 (
9 SELECT
10 Ename Name,
11 HireDate,
12 CONNECT_BY_ROOT Ename Boss,
13 CONNECT_BY_ROOT HireDate BossHire
14 FROM Emp
15 START WITH Job = 'PRESIDENT'
16 CONNECT BY PRIOR EMPNO = MGR
17 )
18* WHERE SIGN(BossHire - HireDate) = -1
SQL> /
```

NAME	HIREDATE	BOSS	BOSSHIRE	DAYS
SCOTT	09-DEC-82	KING	17-NOV-81	-387
ADAMS	12-JAN-83	KING	17-NOV-81	-421
FORD	03-DEC-81	KING	17-NOV-81	-16
JAMES	03-DEC-81	KING	17-NOV-81	-16
MILLER	23-JAN-82	KING	17-NOV-81	-67

SQL> cl scr

```
SQL> SELECT
2 Ename Name, Dname Dloc,
3 CONNECT_BY_ROOT Ename Boss,
4 CONNECT_BY_ROOT D.Loc BossLoc
5 FROM Emp E, Dept D
6 WHERE E.Deptno = D.Deptno
7 START WITH Job = 'PRESIDENT'
8 CONNECT BY PRIOR EMPNO = MGR;
```

NAME	DNAME	LOC	BOSS	BOSSLLOC
KING	ACCOUNTING	NEW YORK	KING	NEW YORK
JONES	RESEARCH	DALLAS	KING	NEW YORK
SCOTT	RESEARCH	DALLAS	KING	NEW YORK
ADAMS	RESEARCH	DALLAS	KING	NEW YORK
FORD	RESEARCH	DALLAS	KING	NEW YORK
SMITH	RESEARCH	DALLAS	KING	NEW YORK
BLAKE	SALES	CHICAGO	KING	NEW YORK
ALLEN	SALES	CHICAGO	KING	NEW YORK

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```
WARD      SALES      CHICAGO    KING      NEW YORK
MARTIN    SALES      CHICAGO    KING      NEW YORK
TURNER    SALES      CHICAGO    KING      NEW YORK
JAMES     SALES      CHICAGO    KING      NEW YORK
CLARK     ACCOUNTING NEW YORK    KING      NEW YORK
MILLER    ACCOUNTING NEW YORK    KING      NEW YORK
```

14 rows selected.

SQL> cl scr

SQL> COLUMN "Path" FORMAT A35

```
SQL> SELECT Ename,
  2  SYS_CONNECT_BY_PATH(Ename, '/') "Path"
  3  FROM Emp
  4  START WITH Ename = 'KING'
  5  CONNECT BY PRIOR Empno = MGR;
```

ENAME	Path
KING	/KING
JONES	/KING/JONES
SCOTT	/KING/JONES/SCOTT
ADAMS	/KING/JONES/SCOTT/ADAMS
FORD	/KING/JONES/FORD
SMITH	/KING/JONES/FORD/SMITH
BLAKE	/KING/BLAKE
ALLEN	/KING/BLAKE/ALLEN
WARD	/KING/BLAKE/WARD
MARTIN	/KING/BLAKE/MARTIN
TURNER	/KING/BLAKE/TURNER
JAMES	/KING/BLAKE/JAMES
CLARK	/KING/CLARK
MILLER	/KING/CLARK/MILLER

14 rows selected.

```
SQL> SELECT
  2  Ename,
  3  SYS_CONNECT_BY_PATH(Job, '/') "Path"
  4  FROM Emp
  5  START WITH Ename = 'KING'
  6  CONNECT BY PRIOR Empno = MGR;
```

ENAME	Path
KING	/PRESIDENT
JONES	/PRESIDENT/MANAGER

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```
SCOTT      /PRESIDENT/MANAGER/ANALYST
ADAMS      /PRESIDENT/MANAGER/ANALYST/CLERK
FORD       /PRESIDENT/MANAGER/ANALYST
SMITH      /PRESIDENT/MANAGER/ANALYST/CLERK
BLAKE      /PRESIDENT/MANAGER
ALLEN      /PRESIDENT/MANAGER/SALESMAN
WARD       /PRESIDENT/MANAGER/SALESMAN
MARTIN     /PRESIDENT/MANAGER/SALESMAN
TURNER     /PRESIDENT/MANAGER/SALESMAN
JAMES      /PRESIDENT/MANAGER/CLERK
CLARK      /PRESIDENT/MANAGER
MILLER     /PRESIDENT/MANAGER/CLERK
```

14 rows selected.

```
SQL> COLUMN "JobPath" FORMAT A35
SQL> COLUMN "SalPath" FORMAT A35
SQL> SELECT Ename,
  2  SYS_CONNECT_BY_PATH(Job, '/') "JobPath",
  3  SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
  4  FROM Emp
  5  START WITH Ename = 'KING'
  6  CONNECT BY PRIOR Empno = MGR;
```

ENAME	JobPath	SalPath
KING	/PRESIDENT	/5000
JONES	/PRESIDENT/MANAGER	/5000/2975
SCOTT	/PRESIDENT/MANAGER/ANALYST	/5000/2975/3000
ADAMS	/PRESIDENT/MANAGER/ANALYST/CLERK	/5000/2975/3000/1100
FORD	/PRESIDENT/MANAGER/ANALYST	/5000/2975/3000
SMITH	/PRESIDENT/MANAGER/ANALYST/CLERK	/5000/2975/3000/800
BLAKE	/PRESIDENT/MANAGER	/5000/2850
ALLEN	/PRESIDENT/MANAGER/SALESMAN	/5000/2850/1600
WARD	/PRESIDENT/MANAGER/SALESMAN	/5000/2850/1250
MARTIN	/PRESIDENT/MANAGER/SALESMAN	/5000/2850/1250
TURNER	/PRESIDENT/MANAGER/SALESMAN	/5000/2850/1500
JAMES	/PRESIDENT/MANAGER/CLERK	/5000/2850/950
CLARK	/PRESIDENT/MANAGER	/5000/2450
MILLER	/PRESIDENT/MANAGER/CLERK	/5000/2450/1300

14 rows selected.

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

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```
1  SELECT Ename,
2  SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
3  FROM Emp
4  START WITH Job = 'ANALYST'
5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	SalPath
SCOTT	/3000
ADAMS	/3000/1100
FORD	/3000
SMITH	/3000/800

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename,
2  SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
3  FROM Emp
4  START WITH Job = 'ANALYST'
5* CONNECT BY Empno = PRIOR MGR
SQL> /
```

ENAME	SalPath
SCOTT	/3000
JONES	/3000/2975
KING	/3000/2975/5000
FORD	/3000
JONES	/3000/2975
KING	/3000/2975/5000

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Empno, Ename, MGR
2  FROM Emp;
```

EMPNO	ENAME	MGR
7839	KING	
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698

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```
7499 ALLEN          7698
7844 TURNER         7698
7900 JAMES          7698
7521 WARD           7698
7902 FORD            7566
7369 SMITH          7902
7788 SCOTT          7566
7876 ADAMS          7788
7934 MILLER         7782
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, MGR
2  FROM Emp
3  START WITH Empno = 7839
4* CONNECT BY PRIOR Empno = MGR
SQL> /
```

EMPNO	ENAME	MGR
7839	KING	
7566	JONES	7839
7788	SCOTT	7566
7876	ADAMS	7788
7902	FORD	7566
7369	SMITH	7902
7698	BLAKE	7839
7499	ALLEN	7698
7521	WARD	7698
7654	MARTIN	7698
7844	TURNER	7698
7900	JAMES	7698
7782	CLARK	7839
7934	MILLER	7782

14 rows selected.

SQL> UPDATE Emp

2 SET MGR = 7566

3 WHERE Empno = 7839;

1 row updated.

SQL> SELECT Empno, Ename, MGR

2 FROM Emp;

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EMPNO	ENAME	MGR
7839	KING	7566
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698
7499	ALLEN	7698
7844	TURNER	7698
7900	JAMES	7698
7521	WARD	7698
7902	FORD	7566
7369	SMITH	7902
7788	SCOTT	7566
7876	ADAMS	7788
7934	MILLER	7782

14 rows selected.

```
SQL> SELECT Empno, Ename, MGR
2 FROM Emp
3 START WITH Empno = 7839
4 CONNECT BY PRIOR Empno = MGR;
ERROR:
ORA-01436: CONNECT BY loop in user data
```

no rows selected

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Empno, Ename, MGR
2 FROM Emp
3 START WITH Empno = 7839
4* CONNECT BY NOCYCLE PRIOR Empno = MGR
SQL> /
```

EMPNO	ENAME	MGR
7839	KING	7566
7566	JONES	7839
7788	SCOTT	7566
7876	ADAMS	7788
7902	FORD	7566
7369	SMITH	7902

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7698	BLAKE	7839
7499	ALLEN	7698
7521	WARD	7698
7654	MARTIN	7698
7844	TURNER	7698
7900	JAMES	7698
7782	CLARK	7839
7934	MILLER	7782

14 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> SELECT Empno, Ename, MGR
2 FROM Emp
3 START WITH Empno = 7839
4 CONNECT BY PRIOR Empno = MGR;

EMPNO	ENAME	MGR
7839	KING	
7566	JONES	7839
7788	SCOTT	7566
7876	ADAMS	7788
7902	FORD	7566
7369	SMITH	7902
7698	BLAKE	7839
7499	ALLEN	7698
7521	WARD	7698
7654	MARTIN	7698
7844	TURNER	7698
7900	JAMES	7698
7782	CLARK	7839
7934	MILLER	7782

14 rows selected.

SQL> ED
Wrote file afiedt.buf

1 SELECT Empno, Ename, MGR, Sal
2 FROM Emp
3 START WITH Empno = 7839
4* CONNECT BY PRIOR Empno = MGR

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SQL> /

EMPNO	ENAME	MGR	SAL
7839	KING		5000
7566	JONES	7839	2975
7788	SCOTT	7566	3000
7876	ADAMS	7788	1100
7902	FORD	7566	3000
7369	SMITH	7902	800
7698	BLAKE	7839	2850
7499	ALLEN	7698	1600
7521	WARD	7698	1250
7654	MARTIN	7698	1250
7844	TURNER	7698	1500
7900	JAMES	7698	950
7782	CLARK	7839	2450
7934	MILLER	7782	1300

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, MGR, Sal
2  FROM Emp
3  START WITH Empno = 7839*
4  CONNECT BY PRIOR Empno = MGR
5* ORDER BY Sal
SQL> /
```

EMPNO	ENAME	MGR	SAL
7369	SMITH	7902	800
7900	JAMES	7698	950
7876	ADAMS	7788	1100
7654	MARTIN	7698	1250
7521	WARD	7698	1250
7934	MILLER	7782	1300
7844	TURNER	7698	1500
7499	ALLEN	7698	1600
7782	CLARK	7839	2450
7698	BLAKE	7839	2850
7566	JONES	7839	2975
7788	SCOTT	7566	3000
7902	FORD	7566	3000
7839	KING		5000

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14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, MGR, Sal
2  FROM Emp
3  START WITH Empno = 7839
4  CONNECT BY PRIOR Empno = MGR
5* ORDER SIBLINGS BY Sal
SQL> /
```

EMPNO	ENAME	MGR	SAL
7839	KING		5000
7782	CLARK	7839	2450
7934	MILLER	7782	1300
7698	BLAKE	7839	2850
7900	JAMES	7698	950
7521	WARD	7698	1250
7654	MARTIN	7698	1250
7844	TURNER	7698	1500
7499	ALLEN	7698	1600
7566	JONES	7839	2975
7788	SCOTT	7566	3000
7876	ADAMS	7788	1100
7902	FORD	7566	3000
7369	SMITH	7902	800

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, MGR, Sal
2  FROM Emp
3  START WITH Empno = 7839
4  CONNECT BY PRIOR Empno = MGR
5* ORDER SIBLINGS BY Ename DESC
SQL>
```

EMPNO	ENAME	MGR	SAL
7839	KING		5000
7566	JONES	7839	2975
7788	SCOTT	7566	3000
7876	ADAMS	7788	1100
7902	FORD	7566	3000

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```
7369 SMITH          7902          800
7782 CLARK          7839         2450
7934 MILLER         7782         1300
7698 BLAKE          7839         2850
7521 WARD           7698         1250
7844 TURNER         7698         1500
7654 MARTIN         7698         1250
7900 JAMES          7698          950
7499 ALLEN          7698         1600
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, MGR, Sal
2  FROM Emp
3  START WITH Empno = 7839
4  CONNECT BY PRIOR Empno = MGR
5* ORDER SIBLINGS BY Ename
SQL> /
```

EMPNO	ENAME	MGR	SAL
7839	KING		5000
7698	BLAKE	7839	2850
7499	ALLEN	7698	1600
7900	JAMES	7698	950
7654	MARTIN	7698	1250
7844	TURNER	7698	1500
7521	WARD	7698	1250
7782	CLARK	7839	2450
7934	MILLER	7782	1300
7566	JONES	7839	2975
7902	FORD	7566	3000
7369	SMITH	7902	800
7788	SCOTT	7566	3000
7876	ADAMS	7788	1100

14 rows selected.

SQL> SPool OFF

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